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APPLICATION NO.	FILING DA	TE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/955,979 09/20/2001		Jang Jin Yoo	041501-5452	1915	
9629	7590 0-	4/09/2003			
	LEWIS & BOO		EXAMINER		
	SYLVANIA AVI ON, DC 20004			AKKAPEDDI	, PRASAD R
				ART UNIT	PAPER NUMBER
				2871	
			DATE MAILED: 04/09/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

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•		Application No.		Applicant(s)						
		09/955,979		YOO ET AL.						
	Office Action Summary	Examiner		Art Unit						
		Prasad R Akkape		2871						
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply										
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status										
1)🛛										
2a)□	•	<u> </u>								
3)										
-	ion of Claims									
	Claim(s) 1,2 and 4-14 is/are pending in the application.									
	4a) Of the above claim(s) is/are withdrawn from consideration.									
5)	Claim(s) is/are allowed.									
	☑ Claim(s) <u>1,2 and 4-14</u> is/are rejected.									
	Claim(s) is/are objected to.									
8) Claim(s) are subject to restriction and/or election requirement.										
	ion Papers The enecification is chicated to by the Evamine	-								
9) The specification is objected to by the Examiner.										
10) ☐ The drawing(s) filed on <u>06 June 2002</u> is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.										
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.										
If approved, corrected drawings are required in reply to this Office action.										
12) The oath or declaration is objected to by the Examiner.										
Priority under 35 U.S.C. §§ 119 and 120										
13)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).										
	a)⊠ All b)□ Some * c)□ None of:									
	1.⊠ Certified copies of the priority documents have been received.									
	2. Certified copies of the priority documents have been received in Application No									
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 										
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).										
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.										
Attachment(s)										
1) Notice	te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s) 4	5) 🔲 🗆	Interview Summary (Notice of Informal Pa Other:							

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 18 November 2002 has been entered.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1, 4-8, 12-14 are rejected under 35 U.S.C. 102(b) as being anticipated by Kim et al. (Kim) (U.S.Patent No. 6,100,953).

As to claims 1, 4 and 8: In describing the prior art, Kim discloses a liquid crystal display device ((Fig. 1A) with an insulating film (passivation layer, Col. 1, lines 31-32) on a first substrate, a first electrode (13) having a plurality of slit patterns directly contacting the insulating film (Fig. 1A), a light shielding layer (15) below each slit pattern, a second electrode (17) on a second substrate and a

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liquid crystal layer between first and second substrates (Col. 1, lines 44-45) and the alignment directions of the liquid crystal layer (Col. 1, lines 51-53).

As to claims 5-7 and 12-14: Kim also discloses that the first electrode (13) is made of a transparent conductive material, ITO (Col. 4, lines 53-55), and the second electrode (17) also includes a transparent conductive material ITO (Col. 5, lines 46-48) and the passivation layer (insulating layer) on the entire first substrate (Fig. 1A).

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 2, 9-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kim in view of Woo et al. (Woo) (U.S.Patent No. 6,067,140).

As to claims 2, 9-11: Although Kim discloses a light shield layer (15), but the layer is not in the middle portion of the first electrode. However, Woo discloses a liquid crystal display device with the light- shielding layer (130) below the middle portion of the first electrode (121). The light- shielding layer must be formed at the boundary region (disinclination line) to shield light entering this region (Col. 1, lines 57-59). Thus it is would have been obvious to one skilled in the art in view of Woo to employ a light shielding layer under each slit and at the

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middle portion of the first electrode for preventing leakage at the disinclination lines, thereby improving contrast.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Prasad R Akkapeddi whose telephone number is 703-305-4767. The examiner can normally be reached on 7:00AM to 5:30PM M-Th.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert H Kim can be reached on 703-305-3492. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9318 for regular communications and 703-872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0530.

March 26, 2003

TOANTON
PRIMARY EXAMINER